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CHAPTER 1

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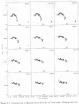
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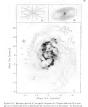
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 $V_{ab}(c|g) = V_{ab} + V_{a}(c) \text{ and and } + V_{a}(c) \text{ and area} + V_{a}(c) \text{ (i.i.)}$

where $Y_{i,j}$ is the systems volume of the anter of the princy ϕ_{ij} pay, K_i and Y_{ij} , are the resonance and non-travelet traductive density comparates of the closevest velocity and Y_i is given belong in the x_i districts. The exampled highs δ is printed in $(\phi_{ij}, g_{ij}) \in \text{and } \delta$ by the constitute

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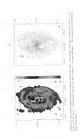
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$$g_{\theta}(\mathbf{X}) = 2.33 \times 10^4 \left(\frac{\mathbf{X}}{100}\right) \left(\frac{\mathbf{X}^2}{100000}\right) M_{\odot}$$
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Figure 3-9. If head groupole and content range of the dark of the gallery. A) Continues has done 10.1 to 10.0 in eagle of 0.4 mag arrow. * (b) The II hard swape of NGC 2008. **
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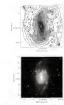


Figure 2.3. If bind graphed in 1 to the stops of the delth of the Orbory All Connects are lines 16.3 to 20.2 as respect to a viv., in the 7. the Tax in the respect of 80.0 ARM. The range of magnetials where shows in 16.3 to 20.2 Arm. 1 The



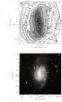
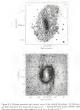


Figure 5.4. Flood proceeds and extraor maps of the clock of the galaxy. \$1 Contraors are done 10.5 to 22.2 to reput of 0.4 mag across. ** In The 1 hand maps of 9000 1000. **The reaper of magnitude values observe to book 10.000 in to 25 mag across. **





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Figure 5.4. The U.X value and a rouge of PECC EIRD. At The black and element the dismonolated and components of the box. El Remondarily are topolated orders of the under map we determined by filtery ellipsical counts along the major size of the disk $(\phi = -12^{\circ})$





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Figure 3-19. An integrated intensity (i.e. recurrent tree) may of MICC 2008 12 the collecting

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Figure 1.24. Velocity and response to the control of superposed. (i) Ended respectly profits of the size costs position of the size costs during the Y - B , and K hand image. The propher density profits state from rose during the Y - B , and K hand image. The propher during the bootstay of the mount short late. The R and Y intensity values have be during the bootstay of the mount short late from Y.

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CRAPTER A

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$$\Sigma_1 = \frac{1}{6}k_2 + \phi - \frac{\pi}{4}\Omega P^{\mu} + \phi_1$$
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$$\alpha' = r_g \left(\frac{d\Omega^2}{dr} \right)_{r_0} + 4 \tilde{\omega}_0^2$$
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$$p(x) = \int_{-\infty}^{+\infty} \frac{p_1(x)}{p_2(x)} dx$$



Figure 4.2. The disprejence [] hand energy of NSA. With h(x) a lack the granulational position of the phinty was extructed. The unique law, here are god; or thus the major nor of the law is adjusted with the γ years of the graph.



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Figure 4-19: Programm of the x-colors store in the 4.1 resource. Order 8 in the northern text at the x_1 ap: The incolors veloce for sents of that $x \in \mathbb{N}$ for each of the orders x = 4000, 14 = 6000, and 12 = 6000 and 12 = 6000. The store are in sents of the

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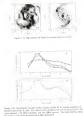


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Figure 5. 29. SV above taken taken the empiricals of the selector field of blacked A joint has lead the fit often (Wiled emilio) at k=0.00?

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Figure 5-19. PV aftern taken shong the source talk of the record, from an examination of the firefunc (Effect angles) at 1-0-919.

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Figure 5-26. Mandaing manageradocor between the computed in orders and the parfers later of Model 3.



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Figure 5-30: Constantian of the x₁ often for blooks A and C. The n the best defined and exponentions be the joints 6 lpC tourphology of the policy Orbot form block I x, and C are to blook and expositivity. The block work desirable for

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11.1. Show the conduction of the conduction

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SUGGIFTED TO FUTURE RESEARCH

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APPENDIX A

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where g is the stabilistical weight of the interpretable field where $g_1(y_1)$ is reptal to drive. The riph (nearly abstratal in Normic) triangeneries of the gree of princip Y_1 . At Y_2 = 100 K; Y_2 = Y_3 = Y_4 = $Y_$

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$$\frac{L_{c}}{V} = S_{c} - I_{c}$$
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is in the shooping coefficient in

$$g_{\alpha}=\eta_{\alpha}(\theta_{\alpha}g)=e^{-2\pi i(\theta^{\prime}g)}(\frac{2\pi i}{4g})\phi_{\alpha}$$

by the linear lood stoom through \$1-cm phones showspiece. \$d_m\$ the has parallel of the gas and a necessituded to early out all Supersory. The flow that the Xinston coefficient are spicied by

$$A_{N} = (\frac{2k_{0}\delta}{\delta})\{\hat{U}_{0}, \quad \text{such} \quad g_{1}\hat{V}_{2} = g_{2}B_{2}$$

$$c_{ij} = \frac{p_{ij}}{p_{ij}} \frac{dp_{ij}}{dp_{ij}} \frac{d^2p_{ij}}{dp_{ij}} \frac{dp_{ij}}{dp_{ij}} \frac{dp_{ij}}{dp_{$$

$$=\frac{4\pi}{12}\frac{K_0}{N_0}\frac{e^2k}{12N^2}N_0\phi_0$$
 (8.2)

$$N_S=2.88\times10^{24}\, \sqrt{T_S \gamma_s 4}$$

is local districtly
variety of the specific and
$$E_{\nu}(T_{\nu}) = \lambda_{\nu}$$
 and

$$E_{\nu}(t) = \frac{3dT_{\nu}v^{2}}{(1 - v^{-1})}$$

Here we have the first term in relation most by different an indicate the plant from the first here is no will the Disput form of the Disput from the first here is now with E. Disput form of the other is near the equal days of a few at part of the plant is the most for equal days of a few at part of plant is the plant in the plant is the plant in the pl

$$\chi = 3.88 \times 10^{11} \int 2.44$$

If the engineery same of broaders and one v = nor same

$$\Omega = 10^{16} \int T_0 ds$$
 (A.9)

over the nation who of the control of the control of the same of the system of the sys

$$g_{20}(x_{c}) = 2.21 \times 10^{6} D^{2} \int S(s) ds$$
 (r=0.1) (A.4)

have 25 or the distances to take recover or made of 25pc, and the first density or grown 1

The flux density at minimal at the state of Junetice where 1 Jy = 20^{-10} W Ωe^{-1} m $^{1/2}$ Housew, Number A 2 between

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APPENDIX II PUNDAMENTAL CONSEPSS

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As invalental above, data are up to fit provincemes interferences in residual placeres the residue who all fluctions of positions of the VSEQ are operatured and in up. Selferentees about the estimator and position of the receiver as the field of view or executed by decreasing the system deletions in toution (complex visibility) from the areas and in some otherwise in a selfection of the view.

Bother the presence of solutioning the relatibilities and althoushild profess the longer of the channel queenes articularly, these managinas should be useful to when follows: Paris, the distance to the observed sources (ϕ) is second to be that many such when $d \gg d^2/\Delta$. So their distances of the source can be obtained in also that suches desired Directives $\partial \partial h$ and ∂h and ∂h are the solution of ∂h are the solution of ∂h and ∂h are the s



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is the same of Dispite means that is measured by the same parameters when the individual Fourier imaginates theories by interfacements we continued. Lookly the measured field will be considered as unified for sample CO;

The bind degrees as Figure 16 of 16 in min to describe the na association of the decrease subfragments as produced to a min to describe the contrast of the contrast to the contrast produced to the contrast of the contrast

$V_{\nu} = \int L(z) dL(z) \exp(-im\pi z) dz$



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(b) a tile radio begittoen for lakentlyl of the suarro of frequency (a)) at the normalized requires passes of the establishment disha-

the mind might from this, the region is recover a never of the bandlin specing 8 and mayor posture verter

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can be consisted by the consequence when A (a) is said to COMMON.

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3.5. The a Anti-o case proof cost and purels expensively while as point concells the
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The a Anti-o case proof cost is the action of the Anti-observation of the Anti-observation and the Anti-obse

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$$\label{eq:definition} S(u,v,u) = \int\limits_{-\infty}^{\infty} \int\limits_{-\infty}^{\infty} f_{\nu}(t,m) A_{\nu}(t,u) e^{-2\pi i (u,v,u)} \frac{dt du}{(\sqrt{t}-t)^2 - m/t}$$

Detaily the regress of observations or small empassed in the which colonial sphere or the curvature of the sky plane or neglected. Then, ALO m) or 1 and for each just plane

and V(u,v,v) is now externed to an idea complex valuablely above A be a complex variable whereas L(G,v) is and A(G,k) the following limit in instatute in V(u,v,v). the Ferrice

For special has observations, substitute as several despection V(u,v) are absenced to except the complete radio varieties from the course. By severang a time who [lag asternal δv) as the data pools, downer despective are arbitral defect the regress to

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This recent consistence of all q_i as implied. The consistence requires an angiven $g_{ij} = g_{ij} = g_{ij}$

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1,4,6

$\gamma_j = \phi_1 - \phi_2 + \phi_1$

A least squares solution to used as the large standard between (9.95,1/1) makes the pure of equations resplacement as such collaboration response (for $g_{ij} = 1$, that is the usual stan). The amplitude and glows shows every new readily soluted as $\alpha_{ij} = \Lambda_{ij} \alpha_{ij} \alpha_{ij}$.

The data relations suffering and the PAST of the SA APP. The state of relations are performed in a valence in the SA APP. The variant development as performed are a variations in the Green of September on a CRID) which the loss in the first the base from the contribution to the loss from the contribution of the sales of the sales of the selection of the sales of the

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$$m(d'|f(m)) = \int_{m}^{m} \int_{m}^{m} V(n, v) e^{i\pi v(\omega t + m)} d\omega dv$$

The new position leadable of numbers [8] is distilled point [8] where N words, angle 16 to 10 and Commiss of colored points of new number inseque to 10 and feet for Per Guardens (PPI) includings: Born Foreste requestions [2072], in this mobilist reality and the mode (NEW) includings: Born Foreste request the the PET of N which point in all the mode (NEW) whereas [2072] or one of PETP progress the well-done in an including solucate as including whereas [2072] or one of PETP progress the well-done like major case as inscriptly and of disseminate in N y "Will" when it could years be in powers to

tion D2 car represent to

$$\mathbb{I}^{2}[I,m] = \int_{\mathbb{R}^{N}} \int_{\mathbb{R}^{N}} V[u,v] \mathcal{G}[u,v] e^{2\pi i (u^{2}-u u)} du dv$$

where $B_{ij}(t)$ is defined using $B_{ij}(t)$ in the first $B_{ij}(t)$ in the second of the second

In component for the desprey of data as the (u,v) phase disordy weighting it must. The weights used to surgered rather based on the breed density of except prints

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$$B(q,n) = 320(n/4n,n/4n) = \sum_{i=1}^{m}\sum_{j=1}^{m}\beta_{ij}^{k} - n/4n, k - n/4n$$

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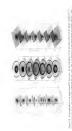


MANAGEMENT

ateur y and case the reflection and translation mediumin of the plater respectively. The last trans of the equation above in the Any Resease (Charles et al., 1988) to residen

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$$\Phi(x,y) = \theta_0 + \frac{\lambda \delta(\beta^2 S^2)}{\lambda f_{\rm tot}} B^2. \qquad (C.1)$$

the contact wavelength bendynes of the windows to the Chern 1991. In product a collection has be first and then some x_i was contacted as the program of the collection of the product of the collection of the

The fact cop in proceeding the over that is no resultable his receiving the staff of the data. That process of wavelength exhibitation is performed by resolution which relative IP data of the will be published under those accustoner wave described before the data of the published of the staff of the published of the staff of the published of the staff of

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APPENSIX 0

The because and mobility of presence relate as a given proportial θ can be determined that depotents of motion. In Carteman resemblance, the Elembronia of the cook

$$H = \frac{1}{2}(p_1^2 + p_2^2) - (xp_1 - yp_1)h_1 + \theta(x, y) = 0$$

when p₁ and p₂ are the consecut resignant numbers in a parameter to resountaining with the last or negative frequency D₁ (Prints & Grawled 2000). The reportion of motion are

$$x=p_0+\Omega_{\rm DF} \qquad \qquad y=p_0-\Omega_{\rm DF}$$

$$p_{\alpha}=\frac{-\partial \Phi(x,y)}{\partial x}+2i_{2}p_{\beta} \qquad \quad p_{\beta}=\frac{-\partial \Phi(x,y)}{\partial y}-2i_{2}p_{\beta}$$

$$y = \Omega_0 D_0 + D_0 a) - \frac{\partial \Phi(x,y)}{\partial x} \qquad (3)$$

and
$$y = 2g/2x + \Omega_0 g - \frac{2\Phi(x,y)}{2y} \eqno(2.6)$$
 and the Einsteinstein can be written as

and the Elementers has been seen as:

$$E = \frac{1}{2}(x^2 + y^2) + \Phi(x,y) - \frac{1}{2}\Phi(y^2 + y^2) = \lambda. \quad (2.6)$$

Setura (2HI)

Not a prior value of the Hamiltonian and Saltad emotivities $[a_1, b_1, b_2, b_3] = y_1(b_1)$ suggested spread (y > 0) as assuminated of probabilistics with the phase y = 0 new superconnel by proofs in the two discussions plant space (x, y). In this way, a Pressure

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 $\sigma_0 = f(\sigma_0,\sigma_0) \qquad \sigma_0 = g(f_0,f_0)$

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The medical bilandared by Bitana (1901) is used to determined the whileley a policide spleas. For a green paraelle rabit,

$$a_0=g(x_0,x_0) \qquad x_1=g(x_0,x_0) \qquad \qquad (0.7)$$

Seq. is accounted and the odded at a point (20-2) with the prest species of single-species with the Princest reviews. Thus $E^1 \rightarrow E^2$ broadcounters connects the final and leaded conductor and m

$$\gamma_0 + \Delta x_1 = J(x_1 + \Delta x_2, x_1 + \Delta z_2)$$
 (D.6)

Taylor proper appearing or Expensions 6 12 and 6 12 about the periodic

Applying the Thirth score explaining to expansion a content of the error problem in $a_1 = x_1$, $x_2 = x_3$ and despite only up to first scalar instead problem.

$$\alpha = \frac{\partial f}{\partial x} - 1 - \frac{\partial f}{\partial x} - c = \frac{\partial u}{\partial x} - \delta = \frac{\partial u}{\partial x}$$

(% %)

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and so Equation 4.25 can be overlaint to
$$\begin{pmatrix} \Delta u_1 \\ \Delta u_2 \end{pmatrix} = A \begin{pmatrix} \partial w_1 \\ \partial w_2 \end{pmatrix}$$
(9.12)

Promote restronce of continuous analysis are μ - producting one manage with street of Promote restronce of continuous analysis are assumed (Ω blackward [188]), $\Omega_{ij} = A_{ij}^{R} = 1$, $\Omega_{ij} = 1$, Ω_{ij

 $K_{i} = A_{i}\lambda_{j}f_{i} + A_{j}\lambda_{k}f_{i}$ (D.1) where b_{i} and b_{i} are the commoder of the developer model. The abstract-range exception

The note to the equation are present. If $|a-d| < \lambda$, that the note are required any papers $|b_{ij}| = |b_{ij}| = 1$, and the obesis at all λ . The odes will be unreally when the contract $|b_{ij}| = |b_{ij}| = 1$, and the obesis within . The odes will be unreally when the

$$\alpha = 1/2 (a$$

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- 4

$$\langle g(y) \rangle = \sum_{j=1}^{N} \frac{f(y_j)}{|y_j|^2} W(y-y_j, h)$$
 (4)
where $\psi(y)$ is the number density. To exclude a final property such proof is associated

$$\langle \mu(q) \rangle = \sum_{i=1}^{N} m_{ij} \, M^{ij}(r-r_{ij}, N)$$

don results as a value greater than the optionin resulter. This is describe as at allows

Vanales and Luisseys (1991) is used for the accoluters. It is the wood common if least, today and complex entry a relevant enables of paint in a defined amplifecture.

$$W(p,h) = \frac{16}{7\pi\hbar^2} \left\{ \begin{array}{ll} (-\frac{1}{2}p^2 + \frac{1}{2}p^2) & \text{if } 0 \leq n < 1, \\ \frac{1}{2}(2-p)^2 & \text{if } 1 \leq n < 2, \\ 0 & \text{otherwise.} \end{array} \right.$$

As paint above, the mass advantage of the broard is no companie work r > 30 do not contribute to the best of 32 addition, the se

On makin storm, we must accompany to the formal, "As deligning, the second derivation of the formal is sentenced." This allows the the assumption that the remembers form that withholds paparaments the unique of Expension E. I. Dilamban 1990.

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 $\frac{dv}{dt} = S_{col} - \nabla \phi - \frac{\Delta V_c^2}{2}$ are S_{col} is the neighbold vaccount force (thereupon) in Kinta (1991). The density as each

$$\rho_i = m_i W(0, k, j + \sum_{i=1}^{K_i} m_i W(r_i, h_i)$$

when H_n is the symber of the prehabits mighton without the everyon remaining impli-

nonnamed flows total by the particle in
$$\psi_{A_1 \ldots A_n} (\sum_{i=1}^n M(x_i) A_i)$$

while the passeur product as calculated from using the monomical equation reck that

$$-\frac{\nabla F}{\ell} = \sum_{i=1}^{L} v_i \left(\frac{I_i}{J^2} + \frac{I_i}{J^2} \right) \nabla_i W(v_i, \lambda_0)$$

 $\Omega_0 = \begin{cases} (-m_0 n_0 + \beta p_0^*)(p_0 - v_0, n_0 \le 0, \\ n - v_0, n_0 > 0 \end{cases}$

 $\frac{\partial u}{\partial t} = \int_{0}^{t} \frac{\partial u}{\partial t} u_{t} u_{t} \left(\nabla u (u_{t} u_{t}) + \frac{1}{2} \sum_{i=1}^{t} u_{i}(u_{t}) \nabla u (u_{t} u_{t}) \right)$

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